



# 2013

## Users Meeting

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# POSTER INDEX





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## Advanced Photon Source

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### Center for Nanoscale Materials

Use of the Center for Nanoscale Materials was supported by the U.S. Department of Energy, Office of Science, Office of Basic Energy Sciences, under Contract No. DE-AC02-06CH11357.

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### CHEMISTRY

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## CONDENSED MATTER PHYSICS

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## INSTRUMENTATION

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## MATERIALS SCIENCE

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## POLYMERS

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## Electron Microscopy Center

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The electron microscopy was accomplished at the Electron Microscopy Center for Materials Research at Argonne National Laboratory, a U.S. Department of Energy Office of Science Laboratory operated under Contract No. DE-AC02-06CH11357 by UChicago Argonne, LLC.

## MATERIALS SCIENCE

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E-3	Gao	Imaging of Interfacial Oxygen Using Chromatic Aberration-corrected TEM
E-4	Phatak	Structural and Magnetic Study of CoFe <sub>2</sub> O <sub>4</sub> Using Energy Loss Magnetic Chiral Dichroism



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## NANOSCIENCE & NANOTECHNOLOGY

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### Exemplary Student Research Program

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Using the world-class facilities at Argonne's Advanced Photon Source, area high school students and their teachers explore the principles and operation of these tools and conduct research during the school year. Under the guidance of staff scientists, each team develops an achievable project based on the techniques and limitations within a specific research group, prepares and submits a research proposal, sets up the experiment, gathers and analyzes their results, draws conclusions, and prepares a final poster for the Users Meeting.

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S-4	The Absorption of Common Metals in Leaf of the Common Dandelion as a Measure of Metals in Soil
S-5	Prevalence of Metal Biomarkers in Fossils of Mazon Creek Fauna and Evolutionary Implications
S-6	Identifying Protein Crystals Using Known Structures

